

## An Australian perspective SADI-S/OADS: adverse events and nutritional deficiencies

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*Published in:*  
Obesity Surgery

*DOI:*  
[10.1007/s11695-019-04101-1](https://doi.org/10.1007/s11695-019-04101-1)

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*Recommended citation(APA):*

Jordaan, J., Jordaan, N., & Marshall, S. (2019). An Australian perspective SADI-S/OADS: adverse events and nutritional deficiencies. *Obesity Surgery*, 29(S5), 746. [PO-345]. <https://doi.org/10.1007/s11695-019-04101-1>

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## SADI-S/OADS - An Australian perspective

### SURGICAL ADVERSE EVENTS AND NUTRITIONAL DEFICIENCIES

An observational retrospective cohort study Nov 2016 to Aug 2019



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#### Disclosure

Conflict of interest: Dr J Jordaan and Dr N Jordaan provide medical/surgical services to all participants. Data extraction and data analysis was done independently by C Matthews and Dr Marshall, respectively. Ethical consideration: This study was approved by the Bond University Human Research Ethics Committee. We acknowledge WLSA for facilitating the presentation and making their premises available for data collection.

## Demographic and Clinical Characteristics

| Characteristic   |              |
|--|--------------|
| <b>Total SADI-S/OADS patients</b>                      | N=100        |
| <1 year  | n=51         |
| 1-2 years  | n=27         |
| >2 years   | n=22         |
| <b>Mean age at surgery <math>\pm</math> SD (years)</b> | 44 $\pm$ 11y |
| <b>Gender (Female)</b>                                 | 75%          |
| <b>Clinical indication</b>                             |              |
| <b>Primary procedure</b>                               | 61%          |
| Super obesity BMI >50                                  | 34%          |
| T2DM BMI >43   | 10%          |
| Other (case by case)                                   | 17%          |
| <b>Revisional surgery</b>                              | 39%          |
| 2° to sleeve gastrectomy                               | 30%          |
| 2° to other procedures                                 | 9%           |

## Surgical Adverse Events: 4%

| # events | Complication   |
|----------|--|
| 1        | Laparoscopic repair inadvertent enterotomy (1-day post-op)                   |
| 1        | Washout and debridement of infected umbilical hernia repair (7-days post-op) |
| 1        | Diagnostic laparoscopy for abdominal pain, unremarkable (4-months post-op)   |
| 1        | Laparoscopic conversion to BPD-DS due to bile reflux (5-months post-op)      |



# Nutritional Deficiencies

|                           | Pre-op<br>N= 100 | 3-months<br>N= 76 | 6-months<br>N= 52 | 9-months<br>N= 31 | 12-months<br>N= 28 | 18-month<br>N= 13 |
|---------------------------|------------------|-------------------|-------------------|-------------------|--------------------|-------------------|
| Vitamin D                 | 46 (50%)         | 17 (24%)*         | 10 (21%)*         | 8 (28%)*          | 7 (26%)*           | 3 (30%)*          |
| B12                       | 5 (5%)           | 1 (1%)*           | 0 (0%)*           | 0 (0%)*           | 0 (0%)*            | 0 (0%)*           |
| Folate                    | 5 (5%)           | 11 (16%)*         | 8 (17%)*          | 7 (24%)*          | 5 (20%)            | 2 (20%)           |
| Calcium                   | 19 (24%)         | 12 (20%)          | 12 (26%)          | 9 (31%)           | 9 (35%)            | 6 (50%)           |
| Zinc                      | 33 (40%)         | 26 (39%)          | 21 (51%)          | 20 (77%)*         | 18 (78%)*          | 4 (44%)           |
| Iron                      | 9 (12%)          | 8 (11%)           | 9 (19%)*          | 2 (7%)            | 0 (0%)             | 0 (0%)            |
| Transferrin<br>Saturation | 31 (43%)         | 25 (36%)          | 18 (38%)          | 9 (30%)           | 4 (17%)*           | 3 (30%)           |
| Ferritin                  | 13 (14%)         | 0 (0%)            | 6 (12%)           | 1 (3%)            | 2 (8%)             | 1 (9%)            |
| Albumin                   | 0 (0%)           | 0 (0%)            | 0 (0%)            | 0 (0%)            | 0 (0%)             | 0 (0%)            |
| B1                        | 0 (0%)           | 0 (0%)            | 0 (0%)            | 1 (4%)            | 0 (0%)             | 0 (0%)            |
| Vitamin A                 | 0 (0%)           | 0 (0%)            | 0 (0%)            | 0 (0%)            | 0 (0%)             | 2 (25%)           |

Deficiency classification based on ASMBS critical ranges (2017)

\*P<0.05 change from pre-op  
Attrition at 18month n = 14, 20%